

**Amendments to the Abstract:**

Please replace the Abstract of the Disclosure beginning on page 84 line 4 with the following

Abstract to correspond to the claims:

--A device for conducting a chemical reaction comprises a body having at least first and second channels formed therein. A reaction vessel extends from the body. The reaction vessel has a reaction chamber, an inlet port connected to the reaction chamber via an inlet channel, and an outlet port connected to the reaction chamber via an outlet channel. The inlet port of the vessel is connected to the first channel in the body, and the outlet port of the vessel is connected to the second channel in the body.

32 [A cartridge for conducting a chemical reaction includes a body having at least one flow path formed therein. The cartridge also includes a reaction vessel extending from the body for holding fluid for chemical reaction and/or optical detection. The vessel comprises a rigid frame defining the side walls of a reaction chamber. The frame includes at least one channel connecting the flow path to the chamber. The vessel also includes flexible films or sheets attached to opposite sides of the rigid frame to form opposing major walls of the chamber. In addition, at least two of the side walls are optically transmissive and angularly offset from each to permit real-time optical detection of analyte in the reaction chamber.]--